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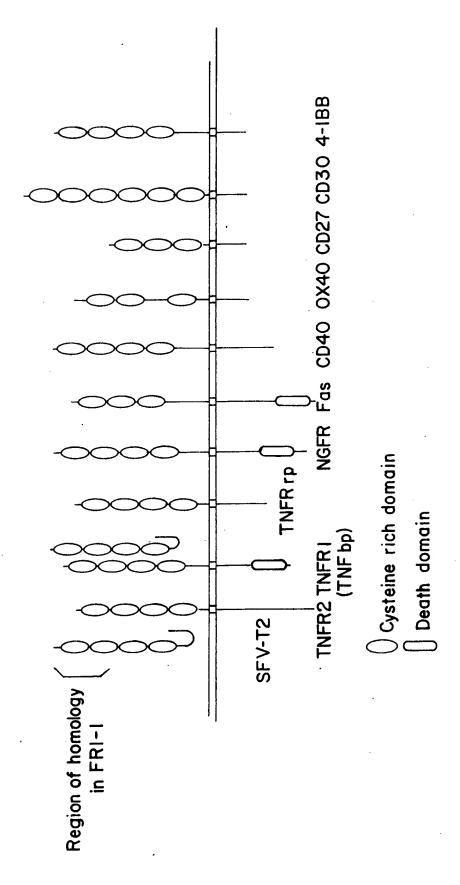
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SW:TNR2_HUMAN	STYTOLWN	wwpeclsco	3SRCSSDQV 100	ETQACTREON 110	RICTCRPGW 120	STYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPL 110 120 130 140	LCAPL 140
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69 YLHYDPETGRQLLCDKCAPGTYLKQHC.TVRRKTLCV.PCPDY.SYTDSW	6 YHYYDQNGRMCEECHMCQPGHFLVKHCKQPKRDTVCHKPCEPGVTYTDDW	116 н	l 56 H Z Score = 8.29
FRI-1	TNFR profile	FRI-1	TNFR profile



LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.2A

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TAG



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FIG.2B

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TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.2C

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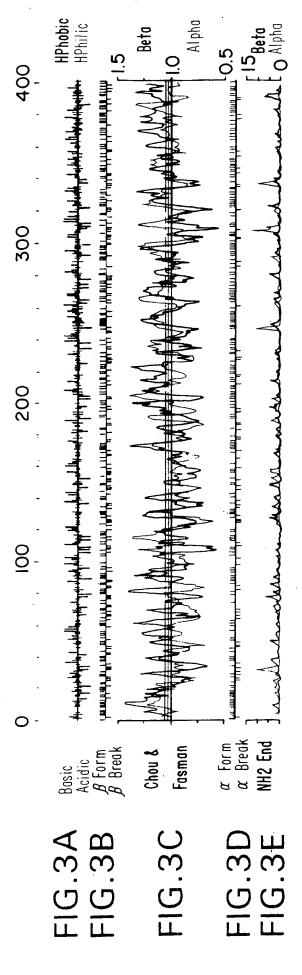
LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

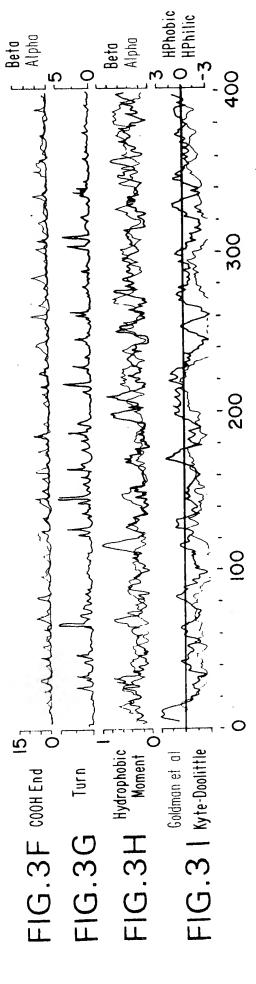
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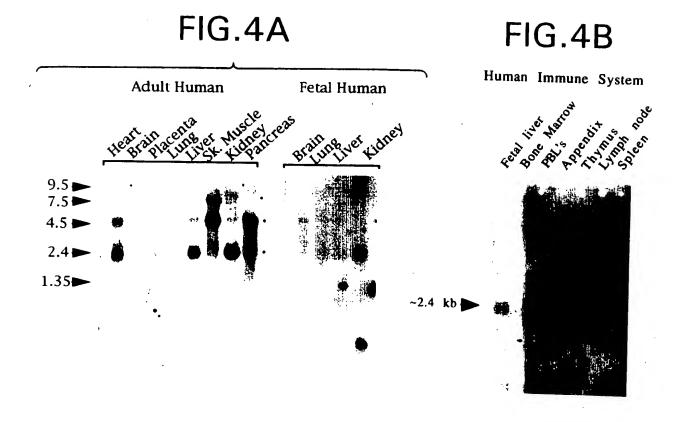
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TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

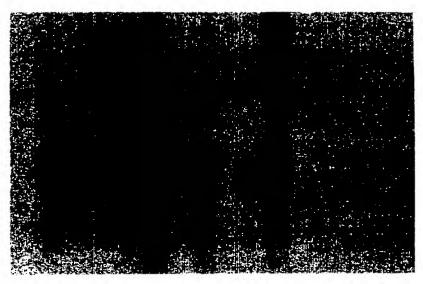






INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.5



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Transgenic Founders

Controls

TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS

FIG.6A

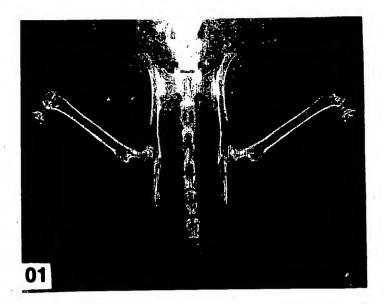


FIG.6B

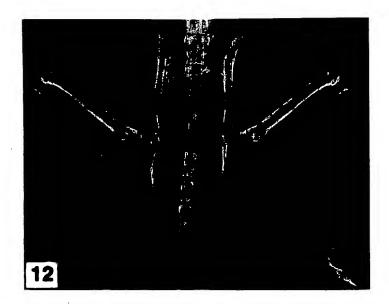
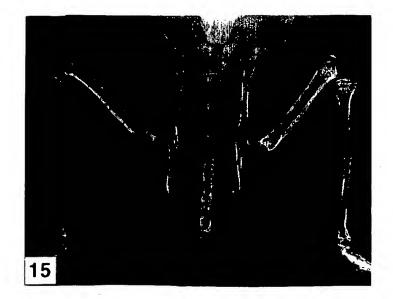


FIG.6C



TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.6D

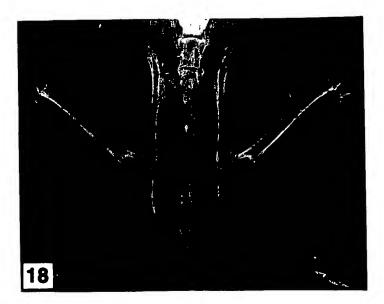


FIG.6E

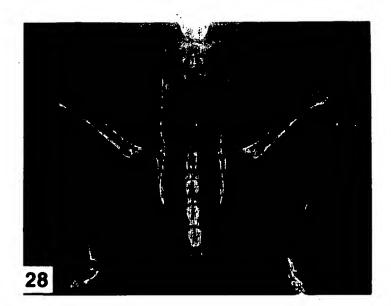
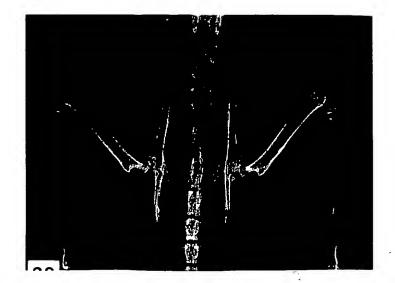


FIG.6F



TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS

FIG.6G

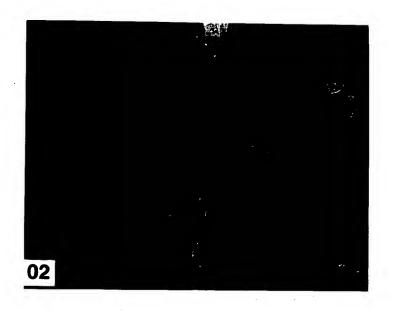
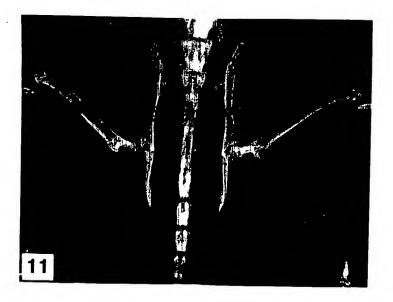


FIG.6H



TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.61

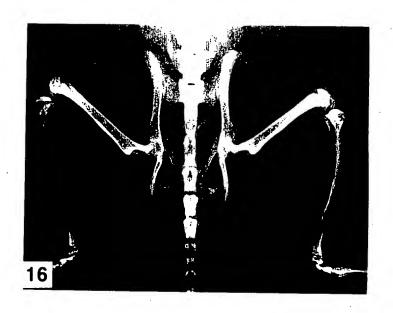


FIG.6J

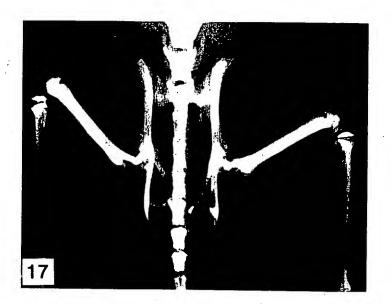
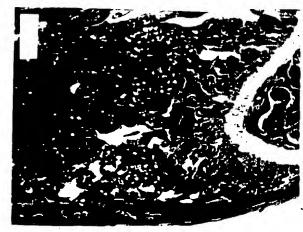


FIG.7A

FIG.7B



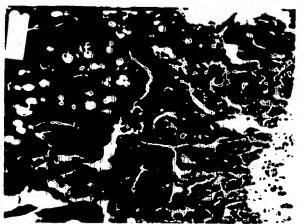


FIG.7C

FIG.7D





FIG.7E

FIG.7F



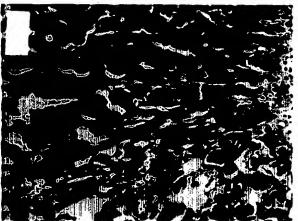


FIG.7G

FIG.7H





TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.8A

FIG.8B

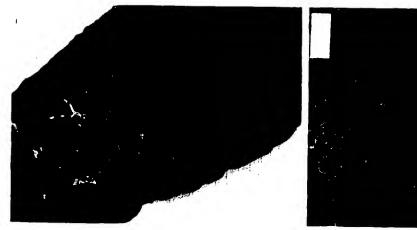




FIG.8C

FIG.8D





INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.9A

			LO						30							50			
CC	'TTA	TATA	\AR	ACG	TCA	TGA	TTG	CCT	GGG	CTG	CAG	AGA	CGC	ACC	TAG	CAC	TGA	CCC	AGCG
			70						90)						110			
GC	TGC	CTC	CTG	AGG	TTT	CCC	GAG	GAC	CAC	TAP	GAA	CAA	GTG	GCT	'GTG	CTG	CGC	ACT	CCTG
																C_			
		13	30						150							170			
GT	GCT	CCTC	GA(CAT	'CAT	ΤGΛ	ΛTG	GλC	λλο	CCA	GGA	AAC	ССТ	TCC	TCC		GTA	CTT	GCAT
		L_							T			\mathbf{T}		P			Y	L	H
•		19							210							230			
TА	TGA	CCCA	\GA.	AAC	TGG	TCA	TCA	GCT	CCTC	GTG	TGA	CAA	ATG	TGC	TCC	TGG	CAC	CTA	ССТА
Y	D	P	E	\mathbf{T}	G	Н	Q	L	L	C	D	K	C	Α	P	G	${f T}$	Y	$^{-}$ Γ
		25							270	-						290			
AA	ACA	GCAC	CTG	CAC	AGT	GAG	GAĠ	GAA	GAC	ATT	GTG	TGT	CCC	$\mathbf{T}\mathbf{T}\mathbf{G}$	CCC	TGA	CCA	CTC	TTAT
K	Q	H	C	\mathbf{T}	V	R	R	K	_		C	V	P	C	P	_	\cdot H	S	Y
		31	_					•	330							350			
AC	GGA	CAGO	TG	GCA	CAC	CAG	TGA	TGA		rgt	GTA	TTG	CAG	CCC	AGT	GTG	CAA	GGA	ACTG
${f T}$	D	S	W	H	${f T}$	S	D	\mathbf{E}	С	V	Y	С	S	P	V	C	K	E	L
		37	-						390							410			
CA	GTC	CGTC)AA{	GCA	GGA	GTG	CAA	CCG	CAC		CAA	.CCG	AGT	GTG	TGA	GTG'	TGA	GGA	AGGG
Q	S	V	K	Q	\mathbf{E}	C	N	R	${f T}$	Н	N	R	V	С	\mathbf{E}	C	E	E	G
		43	30						450)						470			
CG	TTA	CCTC	GA(GAT	CGA	ATT	CTG	CTT	'GAA(GCA	CCG	GAG	CTG	TCC	CCC	:GGG	CTC	CGG	CGTG
R	Y	L	E	I	\mathbf{E}	F	C	L	K	Н	R	S	С	P	P	G	S	G	V
		49	0 (510)						530			
GT	GCA	AGC'I	rGG/	AAC	CCC	AGA	GCG	AAA	CACA	AGT	TTG	CAA	AAA	ATG	TCC	'AGA'	TGG	GTT	CTTC
V	0	Α	G	\mathbf{T}	P	E	R	N	${f T}$	V	С	K	K	С	P	D	G	F	F
	~	55	50						570)						590			
TC	AGG'	TGAC	JAC'	TTC	ATC	GAA	AGC	ACC	CTG	ГАТ	AAA	ACA	CAC	GAA	CTG	CAG	CAC	АТТ	TGGC
S	G	E	Т	S	S	K	Α	P	С	I	K	Н	${f T}$	N	С	S	T	F	G
		61	LO						630)					_	650			_
CT	CCT	GCTA	\AT'	TCA	GAA	AGG	AAA	TGC	AAC	ACA	TGA	CAA	CGT	GTG	TTC	CGG	AAA	CAG	AGAA
		L		O	K	G	N	Α			D	N	V	С	S		N	R	E
		67	10	~			_		690)						710			
GC	CAC	GCA/	AA	GTG	TGG	AAT	AGA	TGT	CAC	CCT	GTG	TGA	AGA	GGC	CTT	CTT	CAG	GTT	TGCT
Α	\mathbf{T}	Q	K	С	G	I	D	V	${f T}$	L	С	E	E	Α	F	F	R	F	Α
		73	30						750)						770			
GT	TCC'	TACC	CAAC	GAT	TAT	ACC	AAA	TTG	GCT	GAG	TGT	TTT	GGT	GGA	CAG	TTT	GCC	TGG	GACC
	Þ								Ţ,										

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.9B

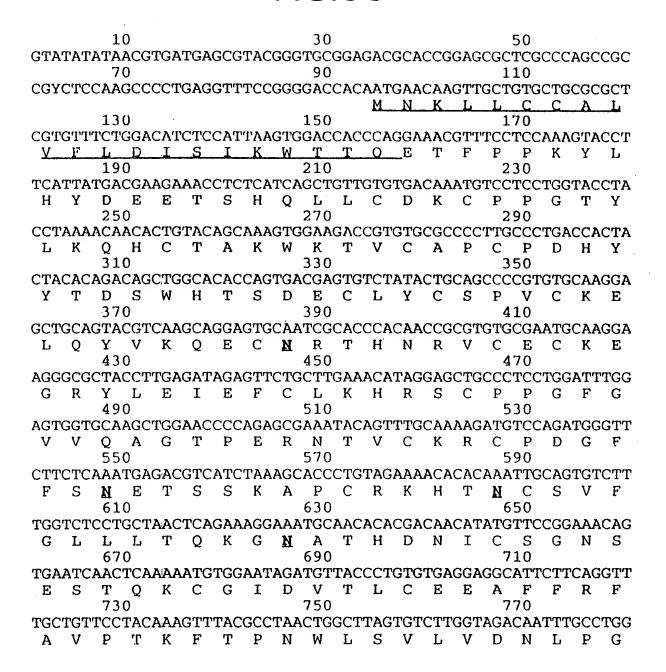
		7	90						81	0						830			
AA	AGT	GAA'	rgc	CGA	GAG	TGT	'AGA	GAG	GAT	AAA	ACC	GAG	ACA	CAG	CTC	ACA	AGA	GCA	AACC
K	V	N	Α	E	S	V	E	R	I	K	R	R	Н	S	S	Q	E	Q	\mathbf{T}
			50						87							890			
	_	_	3CT		GCT				ATCA	AAA		AGA	CCA	GGA	PAA	'GGT	GAA	GAA	GATC
F	Q	L	L	K	L	W	K	Н	Q	Ŋ	R	D	Q	E	M	V	K	K	Ι
	~~~	9.	10						93							950			
AT(	CCA	AGA	.'A'I'	IGA	CCT						'GCA		GCA	TCT	CGG	CCA	CTC	GAA	CCTC
Ι	Q	D	I	D	L	С	E	S	S	V	Q	R	Н	L	G	Н	S	N	L
		-	70						99							010			
		AGA(	GCA	GCT	TCT	'TGC	CTT	GAI	GGA		CCI	'GCC	TGG	GAA	GAA	GAT	CAG	CCC	AGAA
T	T	E	Q	L	L	Α	L	M	E	S	L	P	G	K	K	I	S	P	$\mathbf{E}$
		103	_						105							070			
GA	GAT'	I'GA(	GAG.	AAC	GAG	AAA	GAC	CTG	CAA	ATC	GAG	CGA	GCA:	GCT	CCI	'GAA	GCT	'ACT	CAGT
E	I	Е	R	${f T}$	R	K	${f T}$	С	K	S	S	E	Q	L	L	K	L	L	S
		109	-						111						1	130			
			TAE				ΊGλ	CCV	λGΛ	CVC	CTT	Ġλλ	GGG	CCT	GAT	'GTA	TGC	CCT	CAAG
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	C.II.(								VVC						GAG	GAA	GNC	CAT	GNGG
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N	Q	V	Q	S	V	K	Ι	S	С	L									

**CTTCA** 

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

#### FIG.9C



INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

#### FIG.9D

		79	0						810						8	30			
CAC	CAA	AGT	AAA	.CGC	AGA	GAG	TGT	AGA	GAG	GAT	'AAA'	ACG	GCA	ACA	CAG	CTC	ACA	AGA	ACA
T	K	V 85	0 N	A	E	S	<b>V</b>	E	R 870	I	K	R	Q	Н	S 8	S 90	Q	E	Q
GAC	TTT	CCA	GCT	GCT	GAA	GTT	ATG	GAA	ACA	TCA	AAA	CAA	AGA	CCA	AGA	TAT	AGT	CAA	GAA
Т	F	Q 91	L 0	L	K	L	W	K	H 930	Q	N	K	D	Q	D 9	I 50	V	K	K
GAT	CAT	CCA	AGA	TAT	TGA	CCT	CTG	TGA	AAA	CAG	CGT	GCA	.GCG	GCA	CAT	TGG	ACA	TGC	TAA
I	I	0	D	I	D	L	C.	$\mathbf{E}$	N	S	V	0	R	Н	I	G	Н	Α	N
		97	0						990			-	•		10	10			
CCT	CAC	CTT	CGA	GCA	GCT	TCG	TAG	CTT	'GAT	GGA	AAG	CTT	'ACC	GGG	AAA	GAA	AGT	GGG	AGC
$\mathbf{L}$	${f T}$	F	E	Q	$\mathbf{L}$	R	S	L	M	E	S	L	P	G	K	K	V	G	Α
		103	0					1	050						10	70			
AGA	AGA	CAT	TGA	AAA	AAC	AAT	AAA	GGC	ATG	CAA	ACC	CAG	TGA	CCA	GAT	'CCT	GAA	GCT	GCT
E	D	I	E	K	${f T}$	I	K	Α	C	K	P	S	D	Q	I	L	K	L	L
		109	-						110							30			
CAG	TTT	GTG	GCG	TAA	AAA	AAA	TGG	CGA	CCA	AGA	CAC	CTI	<b>GAA</b>	GGG	CCT	'AAT	GCA	CGC	ACT
S	L	W	R	I	K	N	G		Q	D	$\mathbf{T}$	L	K	G	L	M	Н	Α	L
		115							170							90			•
		CTC													TCI			GAC	
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		CCT																	
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		127						_	.290							10			
		ACCA										ATA	ACT	GGA	I'AA.	'GGC	CAT	TGA	GCT
G	N	Q	ν,	Q	S	V	K	I	S	С	L							•	
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TITLE: COMBINATION THERAPY FOR CONDITIONS

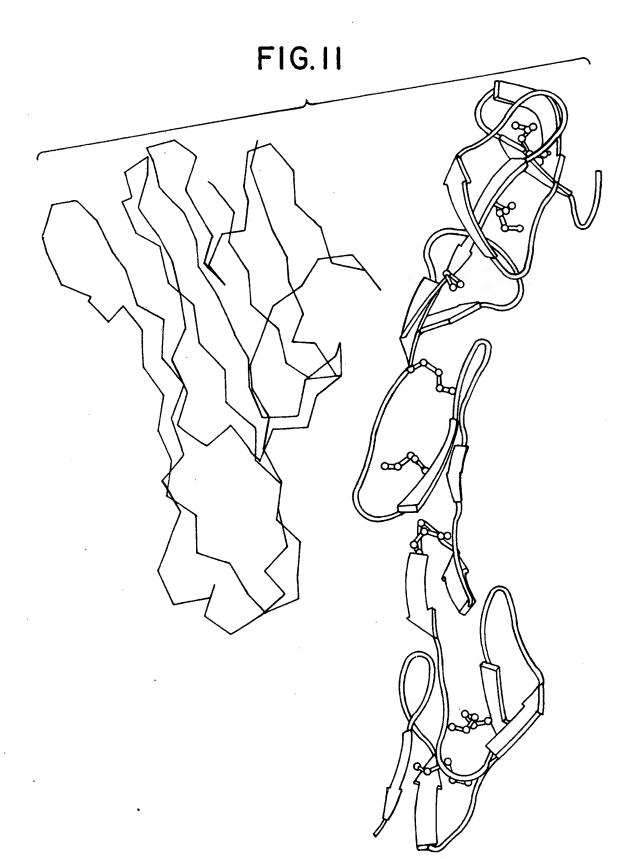
50 50 50	1000	150 150	200
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4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	<b>2</b> で 10 で 11 日 11	XX X C P C C P C C P C C P C C C P C C C C	NN CCC CCC CCC
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国 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日		V V O A V U O A	H H T D H D D H D D D D D D D D D D D D
L L L K K K K K K K K K K K K K K K K K	S S S S S S S S S S S S S S S S S S S	្រ	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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H H H H X X X X	P O G	日 E2 E2 C2 C2 C2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
T C T T T T T T T T T T T T T T T T T T	0 4 P C C P P C C P P P C C P P C C P P C C P P C C P P C C P P C C P P C C P P C P P C P P C P P C P P P C P P P C P P P C P P P C P P P P P P P P P P P P P P P P P P P P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X X X H H H T I I I I I I I I I I I I I I I I
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N K W N K K	000 ### 000	X X X X X X X X X X X X X X X X X X X	0 0 Z E E E E E E
Erg Erg.	frg K	frg frg HHH	frg frg S S S
osteo osteo	losteo costeo losteo	osteo osteo osteo	osteo osteo osteo

250 250 250	300	350 350	4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	401 401 401
EEAFFRFAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSSQEQT EEAFFRFAVPTKIIPNWLSVLVDSLPGTKVNAESVERIKRRHSSQEQT EEAFFRFAVPTKFTPNWLSVLVDNLPGTKVNAESVERIKRQHSSQEQT	LLKLWKHQNRDQEMVKKIIQDIDLCESSVQRHLGHSNLTTEQLLALME LLKLWKHQNRDQEMVKKIIQDIDLCESSVQRHIGHANLTTEQLRILME LLKLWKHQNKDQDIVKKIIQDIDLCENSVQRHIGHANLTFEQLRSLME 300	PGKKISPEEIERTRKTCKSSEQLLKLLSLWRIKNGDQDTLKGLMYALK PGKKISPDEIERTRKTCKPSEQLLKLLSLWRIKNGDQDTLKGLMYALK PGKKVGAEDIERTIKACKPSEQLLKLLSLWRIKNGDQDTLKGLMHALK 350	KTSHFPKTVTHSLRKTMRFLHSFTMYRLYQKLFLEMIGNQVQSVKISC KAYHFPKTVTHSLRKTIRFLHSFTMYRLYQKLFLEMIGNQVQSVKISC KTYHFPKTVTQSLKKTIRFLHSFTMYKLYQKLFLEMIGNOVOSVKISC	401 401 401
999 1111 1000	20 20 20 [14 [14 [14]   Cl Cl Cl	0 0 0 0 0 1 1 1 1	D D D H H H H IO	HHH
osteo.fr	osteo.fr osteo.fr osteo.fr	osteo.frg osteo.frg osteo.frg	osteo.fr osteo.fr osteo.fr	osteo.fr osteo.fr osteo.fr

TITLE: COMBINATION THERAPY FOR CONDITIONS

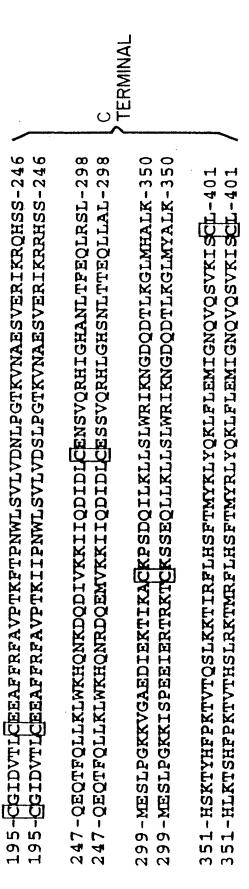
49	98	139 139
1tnrr CPQ - G KYI H P Q N N S I C C T K C H K G T Y L Y N D C P G P G Q D T D C R E C E S G S F T A S noste P P K Y L H Y D E E T S H Q L L C D K C P P G T Y L K Q H C T A K - W K T V C A P C P D H Y Y T D S	.tnrr ENHLRHCLSCS - KCRKEMGQVEISSCTVDRDTVCGCRKNQYRHYWSENLF 10ste whtsdeClycspvc-Kelqyvk-Qecnrthnrvceckegrylei	1tnrr QCFNCSLCLNG-TVHLSCQEKQNTVCT-CHAGFFLRENECVSC noste - CLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNETSSKAPCRKH
T H	H H	H H

TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5



| 43 - KR( PDGFFSNETSSKAP( RKHTN( SVFGLLLTQKGNATHDNI ( SGNSESTQK-194 143-KK(PDGFFSGETSSKAP(IKHTN(STFGLLLIQKGNATHDNV(SGNREATQK-194 22-ETLPPK<u>Y</u>LHYDPETGHQLL(DK(APGTYLKQH(TVRRKTL(VP-64MOUSE 22 - ETFPPK<u>Y</u>LHYDEÉTSHQLL (DŘ (PPGTYLKOH (TAKWKTV (AP - 64 HUMAN | O6-e ( eegryleief ( lkhrs ( ppgsgvvqagtperntv ( -142 106-e(kegryleief(lkhrs(ppgfgvvqagtperntv( SPV( KELOYVKOE ( NRTHNRV ( 65-(PDHSYTDSW<u>H</u>TSDE(VY(SPV(KELQSVKQE(NRTHNRV 583 **SS**2 65-( Pohranoswansoe ( La SSI SSI SS 3 DOMAIN S NOMAIN I MAIN 4 OMAIN

LEADING TO BONE LOSS



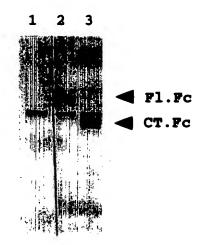
LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

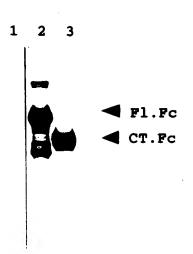
#### FIG. 13A



#### FIG. 13B



#### FIG. 13C



1

TITLE: COMBINATION THERAPY FOR CONDITIONS
LEADING TO BONE LOSS
INVENTORS: Boyle, et al.
APPLN. NO: A-378CIP5

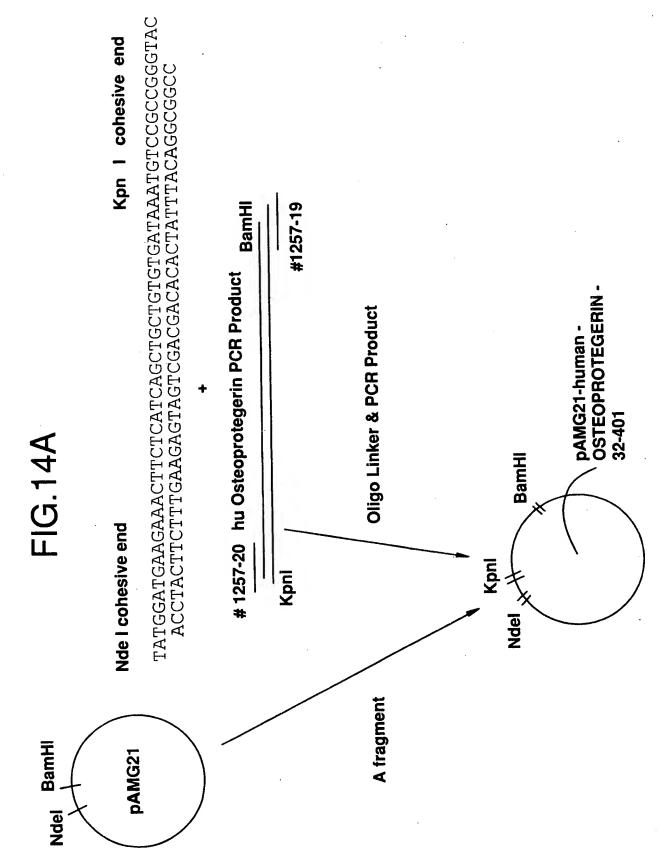
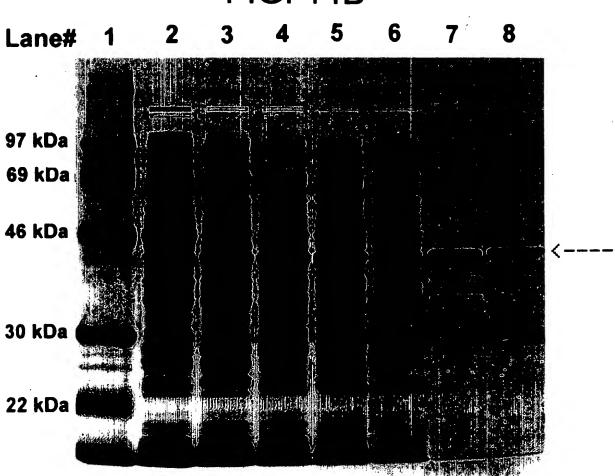
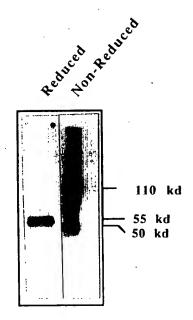


FIG. 14B



TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.15



LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.16A

Cell Lysate

Medium

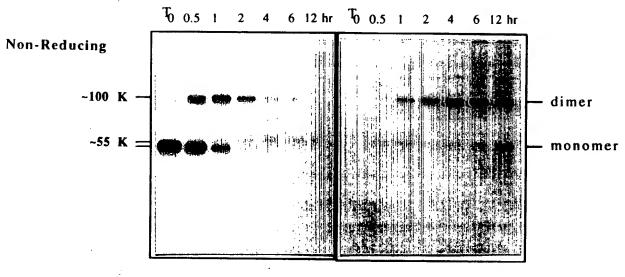
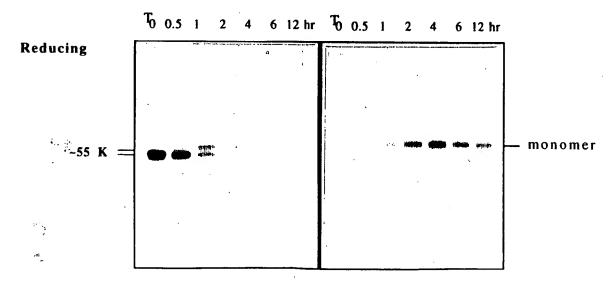


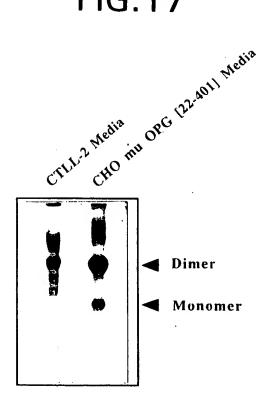
FIG.16B



LEADING TO BONE LOSS

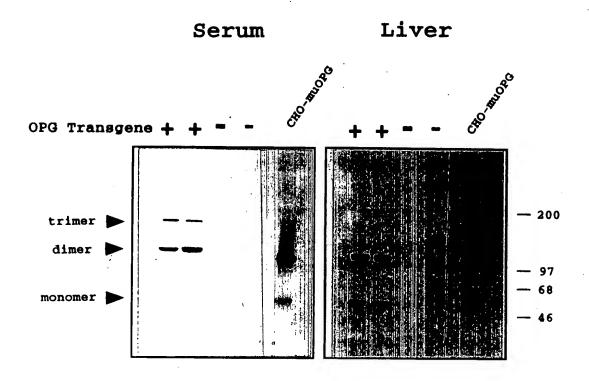
INVENTORS: Boyle, et al. APPLN, NO: A-378CIP5

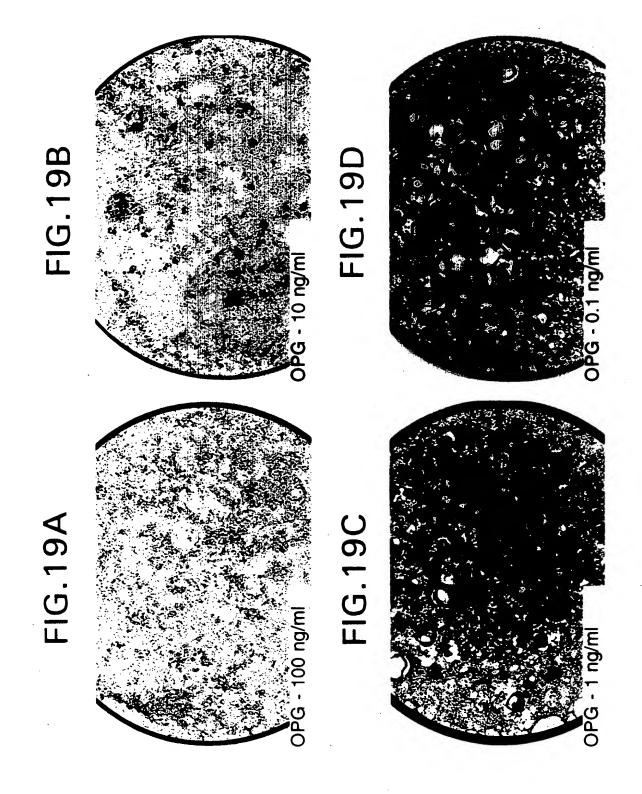
#### FIG.17



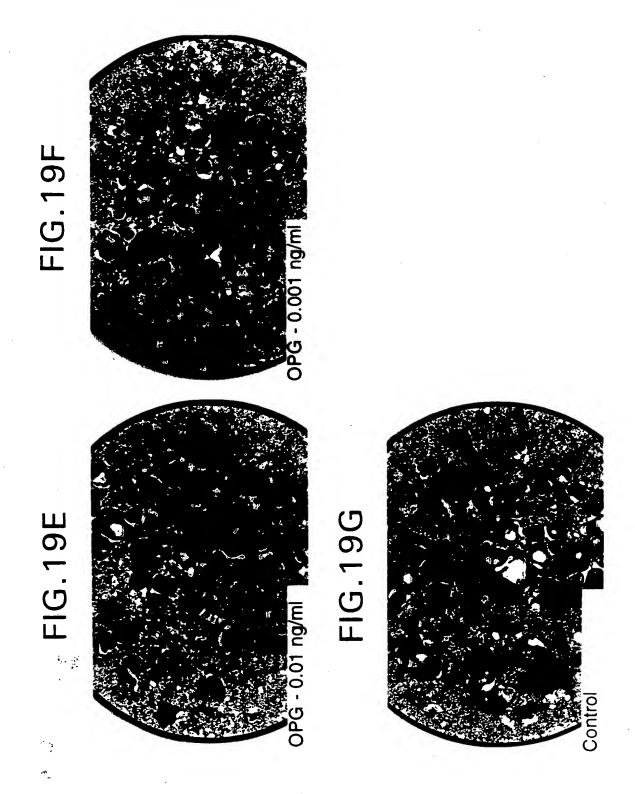
LEADING TO BONE LOSS

FIG.18



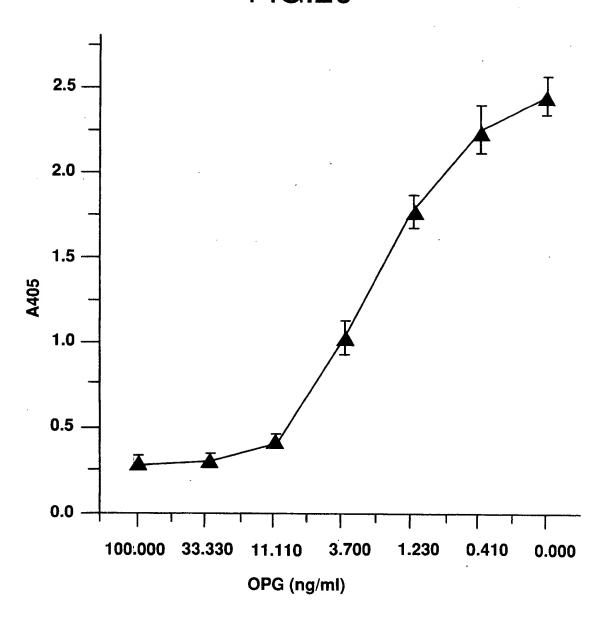


TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS



TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

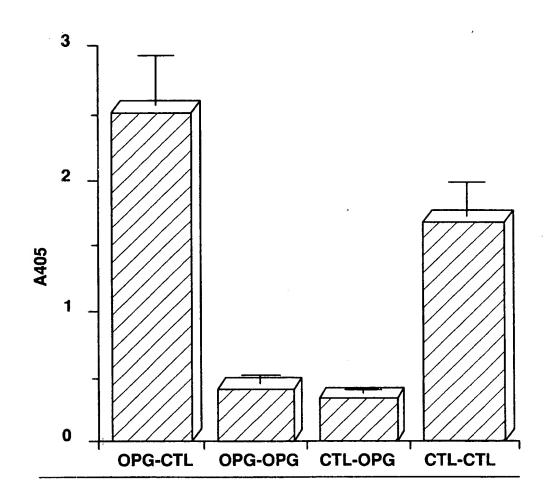
**FIG.20** 



LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5





#### Legend

**OPG - OPG** 

**OPG - OPG** 

Growth Bone marrow cells CSF -1	Intermediate PGE2 + CSF-1	Terminal ST2 cells 1,25 (OH)2 D3 Dexamethasone
4 days	2 days	8 - 10 days
Groups	OPG	OPG
CTL - CTL		
OPG - CTL	100 ng/ml	

100 ng/ml

100 ng/ml 100 ng/ml

LEADING TO BONE LOSS

FIG.22A

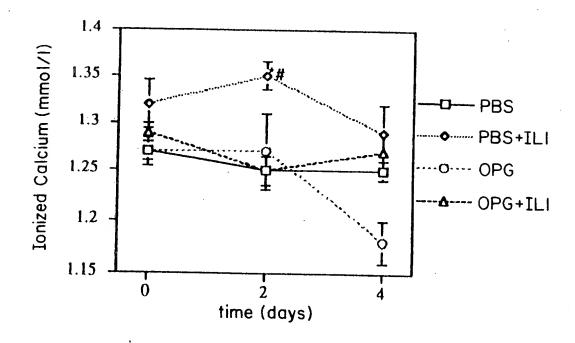
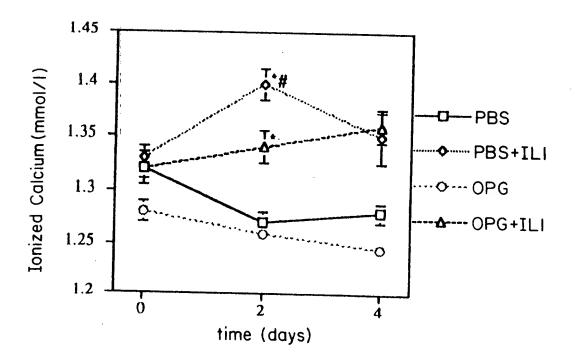


FIG.22B



* Different to PBS, p < 0.05 # Different to OPG ± II 1 n > 0.05

TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS

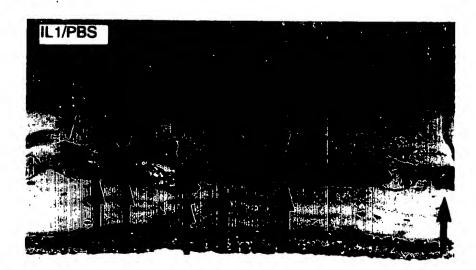
INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.23A

#### PBS/PBS



FIG.23B



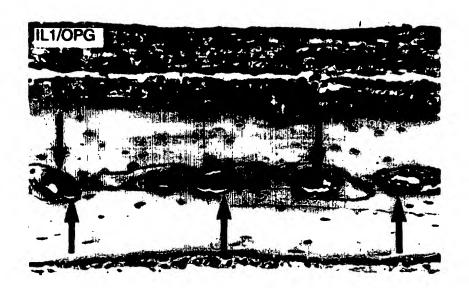
LEADING TO BONE LOSS

FIG.23C





FIG.23D

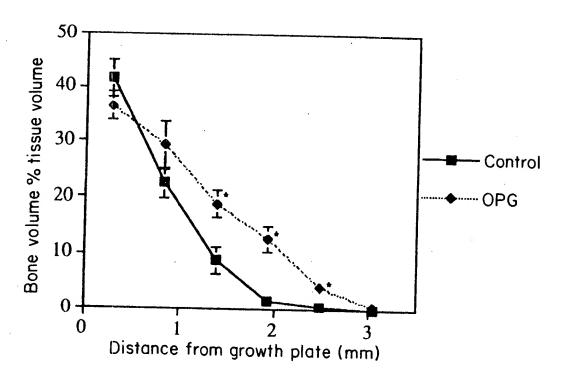


TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.24B FIG.24A

TITLE: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG.25



Different to control p < 0.01

TITLÉ: COMBINATION THERAPY FOR CONDITIONS LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG. 26A

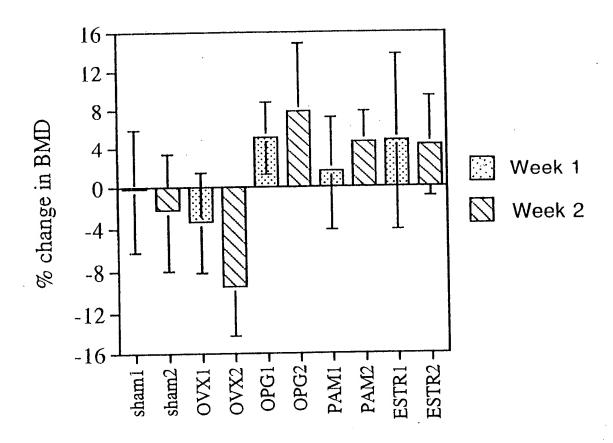
FIG. 26B





LEADING TO BONE LOSS

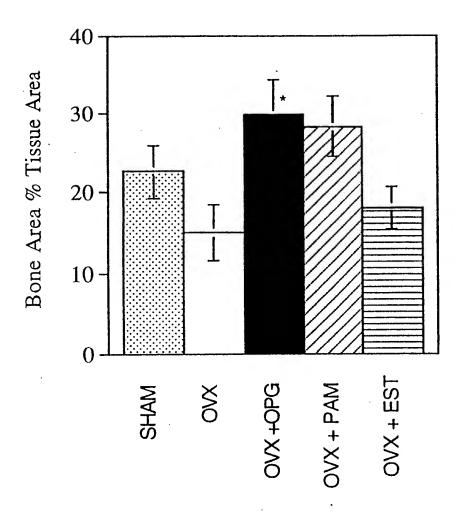
FIG.27



LEADING TO BONE LOSS INVENTORS: Boyle, et al.

APPLN. NO: A-378CIP5

FIG.28



* Different to OVX p < 0.05

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

#### FIG. 29A

DraIII	
CATGGGAAATGTCAGAGTGGAGAACCACACCGAGTGCCACTGCAGCACTTGTTATTATCA	
GTACCCTTTACAGTCTCACCTCTTGGTGTGGCTCACGGTGACGTCGTGAACAATAATAG	
CAAATCCTAATAGTTTGCAGTGGGCCTTGCTGATGATGGCTGACTTGCTCAAAAGGAAA	
GTTTAGGATTATCAAACGTCACCCGGAACGACTACTACCGACTGAACGAGTTTTCCTTT	
TTAATTTGTCCAGTGTCTATGGCTTTGTGAGATAAAACCCTCCTTTTCCTTGCCATACC	
AATTAAACAGGTCACAGATACCGAAACACTCTATTTTGGGAGGAAAAGGAACGGTATGG	
TTTTTAACCTGCTTTGAGAATATACTGCAGCTTTATTGCTTTTCTCCTTATCCTACAAT	
AAAAATTGGACGAAACTCTTATATGACGTCGAAATAACGAAAAGAGGAATAGGATGTTA	_
TAATCAGTAGTCTTGATCTTTTCATTTGGAATGAAATATGGCATTTAGCATGACCATAA	
ATTAGTCATCAGAACTAGAAAGTAAACCTTACTTTATACCGTAAATCGTACTGGTATT	
AAGCTGATTCCACTGGAAATAAAGTCTTTTAAATCATCACTCTATCACTGAATTCTAAT	
TTCGACTAAGGTGACCTTTATTTCAGAAAATTTAGTAGTGAGATAGTGACTTAAGATTA	
TTTTCTGAAAAGTTTCAAGCCAGTTACTTTTGATAGGATTAACGGAAGGGAGTGAGCCA	
AAAAGACTTTTCAAAGTTCGGTCAATGAAAACTATCCTAATTGCCTTCCCTCACTCGGT	
XcmI	
TGGGTGAGGTGGGTTCCCATGTAGTCAATGGCCTAATACTGGAGAATCTTATTCTAACC	
ACCCACTCCACCCAAGGGTACATCAGTTACCGGATTATGACCTCTTAGAATAAGATTGG	
AGCCTTCCAGAGCAAGCTGTGAGCCCCTCAGACAGTGGGCTACTCATGAGACAGTCCAT	
TCGGAAGGTCTCGTTCGACACTCGGGGAGTCTGTCACCCGATGAGTACTCTGTCAGGTA	
GGGGTAAAGGAAGAAATATAACTTCTATTTCTATTCATTTGCACATTGTCTTTAGATG	
CCCCATTTCCTTCTTTTATATTGAAGATAAAGATAAGTAAACGTGTAACAGAAATCTAC	
CCATTTGGGTGAGTTTTATAGAAGTACAGCTACATTAAAAAATAGAACTGATAATAGAT	
GGTAAACCCACTCAAAATATCTTCATGTCGATGTAATTTTTTATCTTGACTATTATCTA	

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

# FIG. 29B

AGGCTTTAAAAAACTTCATCATCACCAGTTTGTCAAGATTCCATTTCAAAGTGAAAAA	720
TCCGAAATTTTTTTGAAGTAAGTAGTGGTCAAACAGTTCTAAGGTAAAGTTTCACTTTTT	720
CCAATTTCTAACGGGTTGGTAAACACAGCAGATGGCAGGGTGAAAAATTAAAGTGAGTG	780
GGTTAAAGATTGCCCAACCATTTGTGTCGTCTACCGTCCCACTTTTTAATTTCACTCAC	
ATGTACCTTTAAAGAAACACTGAAATGCACACACATTACTTAACCTGCTCATTCAT	840
TACATGGAAATTTCTTTGTGACTTTACGTGTGTGTAATGAATTGGACGAGTAAGTA	
TTACATATAGTCTTGGGTGTACAAAATTTAGAAATAAATA	900
AATGTATATCAGAACCCACATGTTTTAAATCTTTATTTAT	
GCTGCACAAATAGGATGCGCGGGGCGTTGGTAGGGGGGGG	960
CGACGTGTTTATCCTACGCGCCCGGCAACCATCCCCGCCTCGGAATCGACGTGTTTAT	
GGATGCGCGGGGCCTTGGTGGGGGGCGGGCCTAAGCTGCGCAAGTGGTACACAGCTÇA 961	1020
CCTACGCGCCCGGAACCACCCCCGCCCCGGATTCGACGCGTTCACCATGTGTCGAGT	
GGGCTGCGATTTCGCGCCAAACTTGACGGCAATCCTAGCGTGAAGGCTGGTAGGATTTTA 1021+	1080
CCCGACGCTAAAGCGCGGTTTGAACTGCCGTTAGGATCGCACTTCCGACCATCCTAAAAT	
TCCCCGCTGCCATCATGGTTCGACCATTGAACTGCATCGTCGCCGTGTCCCAAAATATGG 1081+	1140
AGGGGCGACGGTAGTACCAAGCTGGTAACTTGACGTAGCAGCGCCACAGGGTTTTATACC	
GGATTGGCAAGAACGGAGACCTACCCTGGCCTCCGCTCAGGAACGAGTTCAAGTACTTCC 1141+	1200
CCTAACCGTTCTTGCCTCTGGATGGGACCGGAGGCGAGTCCTTGCTCAAGTTCATGAAGG	
AAAGAATGACCACAACCTCTTCAGTGGAAGGTAAACAGAATCTGGTGATTATGGGTAGGA 1201+	1260
TTTCTTACTGGTGTTGGAGAAGTCACCTTCCATTTGTCTTAGACCACTAATACCCATCCT	
AAACCTGGTTCTCCATTCCTGAGAAGAATCGACCTTTAAAGGACAGAATTAATATAGTTC	1320
TTTGGACCAAGAGGTAAGGACTCTTCTTAGCTGGAAATTTCCTGTCTTAATTATATCAAG	
SacT Re+YT	

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

# FIG. 29C

AflII	
ATGCCTTAAGACTTATTGAACAACCGGAATTGGCAAGTAAAGTAGACATGGTTTGGATAG	1440
TACGGAATTCTGAATAACTTGTTGGCCTTAACCGTTCATTTCATCTGTACCAAACCTATC	
	1500
AGCCTCCGTCAAGACAAATGGTCCTTCGGTACTTAGTTGGTCCGGTGGAGTCTGAGAAAC	
TGACAAGGATCATGCAGGAATTTGAAAGTGACACGTTTTTCCCAGAAATTGATTTGGGGA 1501+	1560
ACTGTTCCTAGTACGTCCTTAAACTTTCACTGTGCAAAAAGGGTCTTTAACTAAACCCCT	
AATATAAACTTCTCCCAGAATACCCAGGCGTCCTCTCTGAGGTCCAGGAGGAAAAAGGCA  1561+  TOTAL AND	1620
TTATATTTGAAGAGGGTCTTATGGGTCCGCAGGAGAGACTCCAGGTCCTCCTTTTTCCGT  TCAAGTATAAGTTTGAAGTCTACGAGAAGAAAGACTAACAGGAAGATGCTTTCAAGTTCT	
1621+ AGTTCATATTCAAACTTCAGATGCTCTTCTTCTTCTGATTGTCCTTCTACGAAAGTTCAAAGT AGTTCATATTCAAACTTCAGATGCTCTTCTTCTTCTGATTGTCCTTCTACGAAAGTTCAAGA	1680
BglII	
CTGCTCCCTCCTAAAGCTATGCATTTTTATAAGACCATGGGACTTTTGCTGGCTTTAGA	
1681	1740
TCTGAAACACTGAAATTGTCTGCTTCTCATCTTCAGTGAGATTCCAAAGGATAGTACAGT	
1741+ AGACTTTGTGACTTTAACAGACGAAGAGTAGAAGTCACTCTAAGGTTTCCTATCATGTCA	1800
GACAGAACAAGAATAGGCACTCTCTACAAAAAAAAGAAAG	
1801+ CTGTCTTGTTCTTATCCGTGAGAGATGTTTTTTTTTTTT	1860
GCATAATAGCTACTGTTAAGAACTCAGAGATAATGAATTGAGAATGGATACTGCTTGAAA	
1861+ CGTATTATCGATGACAATTCTTGAGTCTCTATTACTTAACTCTTACCTATGACGAACTTT	1920
TGAAAATTTAATAAGTTAGAAACTAAACTTTATAAAAATAAAAAATGAGCATTAAAAAA	
1921+ ACTTTTAAATTATTCAATCTTTGATTTGAAATATTTTTTTT	1980
NheI	
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
1981+	ZU4U

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

#### FIG. 29D

BspLU11I	
AGGGATAACGCAGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAA 2041+ TCCCCTATTGCGTCCTTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATT	2100
AAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAA 2101+ TTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTT	2160
TCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCC 2161+ AGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTGTCCTGATATTCTATGGTCCGCAAAGG	2220
CCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTC  2221+ GGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGCGAATGGCCTATGGACAG	2280
CGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAG  2281+ GCGGAAAGAGGGAAGCCCTTCGCACCGCGAAAGAGTATCGAGTGCGACATCCATAGAGTC	2340
TTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGA 2341+ AAGCCACATCCAGCAAGCGAGGTTCGACCCGACACACGTGCTTGGGGGGGCAAGTCGGGCT	2400
CCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATC 2401+ GGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCCATTCTGTGCTGAATAG	2460
GCCACTGGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTAC  2461+ CGGTGACCGTCGTCGGTGACCATTGTCCTAATCGTCTCGCTCCATACATCCGCCACGATG	2520
AGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTG 2521+ TCTCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCCTGTCATAAACCATAGAC	2580
CGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACA 2581+ GCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGT	2640
HgiEII   AACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAA	
2641+ TTGGTGGCGACCATCGCCACCAAAAAAACAAACGTTCGTCGTCTAATGCGCGTCTTTTTT	2700
AGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAA	2760

LEADING TO BONE LOSS
INVENTORS: Boyle, et al.
APPLN. NO: A-378CIP5

#### FIG. 29E

CTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTT	2820
GAGTGCAATTCCCTAAAACCAGTACTCTAATAGTTTTTCCTAGAAGTGGATCTAGGAAAA	
AAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATGAGTAAACTTGGTCTGACAG	2880
TTTAATTTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACCAGACTGTC	
TTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCAT	2940
AATGGTTACGAATTAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTA	
AGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCC	3000
TCAACGGACTGAGGGCCACCATCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGG	
CAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAA 3001+++++++	3060
GTCACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCGTTATTT	
CCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCA	3120
GGTCGGTCGGCCTTCCCGGCTCTTCACCAGGACGTTGAAATAGGCGGAGGTAGGT	
GTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAA 3121+++	3180
CAGATAATTAACAACGGCCCTTCGATCTCATTCATCAAGCGGTCAATTATCAAACGCGTT	
CGTTGTTGCCATTGCTGCAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATT 3181+++++++	3240
GCAACAACGGTAACGACGTCCGTAGCACCACAGTGCGAGCAGCAAACCATACCGAAGTAA	
CAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGC 3241+	3300
GTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGGTACAACACGTTTTTTCG	
EaeI PvuI GdiII	
   GGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGT	
3301+ CCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCA	3360
CATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTC	
3361+ GTACCAATACCGTCGTGACGTATTAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAG	3420

LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

# FIG. 29F

3/18	CTCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCT	3540
J40	GAGAACGGGCCGCAGTTGTGCCCTATTATGGCGCGGTGTATCGTCTTGAAATTTTCACGA	2240
354	CATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATC	3600
	GTAGTAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACTCTAG	
360	CAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAG	3660
	GTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTC	
366	CGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAAATGCCGCAAAAAAGGGAATAAGGGCGAC	3720
	GCAAAGACCCACTCGTTTTTGTCCTTCCGTTTTACGGCGTTTTTTCCCTTATTCCCGCTG	
	SspI 	
372	ACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGG	3780
	TGCCTTTACAACTTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCC	
378	TTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGT	3840
	AATAACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTTATTTGTTTATCCCCA	
384	TCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGAC  1+++ AGGCGCGTGTAAAGGGGCTTTTCACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTG	3900
	ATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGAATTCCCTGTGGA	
390	)1++	3960
	ATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAG	
396	TACACACAGTCAATCCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTC	4020
	GCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCA	
402	CGTACGTAGAGTTAATCAGTCGTTGGTCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGT	4080
•	GAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGC	
408	CTTCATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTATCAGGGCGGGGATTGAGGCG	4140
	CCATCCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTGACTAATTT	
11/		4200

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

# FIG. 29G

SfiI	
 TTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAG	
4201+	40.00
AAAAATAAATACGTCTCCGGCTCCGGCGGAGCCCGGAGACTCGATAAGGTCTTCATCACTC	4200
AvrII	
į daras ir d	
GAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTGGTCGAGGCTCGCATCTCTCCTT	
4261+ CTCCGAAAAACCTCCGGATCCGAAAACGTTTTTCGACCAGCTCCGAGCGTAGAGAGGAA	4320
CACGCGCCGCCCTACCTGAGGCCGCCATCCACGCCGGTTGAGTCGCGTTCTGCCGC 4321+	4390
GTGCGCGGCGGGATGGACTCCGGCGGTAGGTGCGGCCAACTCAGCGCAAGACGGCG	4380
CTCCCGCCTGTGGTGCCTCCTGAACTGCGTCCGCCGTCTAGGTAAGTTTAAAGCTCAGGT	4440
GAGGGCGGACACCACGGAGGACTTGACGCAGGCGGCAGATCCATTCAAATTTCGAGTCCA	4440
NgoAIV	
 CGAGACCGGGCCTTTGTCCGGCGCTCCCTTGGAGCCTACCTA	
4441+	4500
GCTCTGGCCCGGAAACAGGCCGCGAGGGAACCTCGGATGGAT	4500
CGCTTTGCCTGACCCTGCTTGCTCAACTCTACGTCTTTGTTTCGTTTTCTGTTCTGCGCC	
4501+	4560
GCGAAACGGACTGGGACGAACGAGTTGAGATGCAGAAACAAAGCAAAAGACAAGACGCGG	
HpaI I	
GTTACAGATCCGTCGAGGAACTGAAAAACCAGAAAGTTAACTGGTAAGTTTAGTCTTTTT 4561+++	4620
CAATGTCTAGGCAGCTCCTTGACTTTTTGGTCTTTCAATTGACCATTCAAATCAGAAAAA	1020
Psp5II BamHI	
GTCTTTTATTTCAGGTCCCGGATCCGGTGGTGGTGCAAATCAAAGAACTGCTCCTCAGTG	
4621+	4680
CAGAAAATAAAGTCCAGGGCCTAGGCCACCACCACGTTTAGTTTCTTGACGAGGAGTCAC	
GATGTTGCCTTTACTTCTAGGCCTGTACGGAAGTGTTACTTCTGCTCTAAAAGCTGCTGC	
4681	4740
CTACAACGGAAATGAAGATCCGGACATGCCTTCACAATGAAGACGAGATTTTCGACGACG	
HindIII XbaI BssHII	
AACAAGCTTCTAGACCACCATGAACAAGTTGCTGCTGCGCGCGC	
4741+ TTGTTCGAAGATCTGGTGGTACTTGTTCAACGACACGAC	4800

LEADING TO BONE LOSS INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

#### FIG. 29H

	CTCCATTAAGTGGACCACCCAGGAAACGTTTCCTCCAAAGTACCTTCATTATGACGAAGA	4060
b	4801+ GAGGTAATTCACCTGGTGGGTCCTTTGCAAAGGAGGTTTCATGGAAGTAATACTGCTTCT SIKWTTQETFPPKYLHYDEE-	4000
	KpnI	
	AACCTCTCATCAGCTGTTGTGTGACAAATGTCCTCCTGGTACCTAAAACAACACCTG	4920
b	TTGGAGAGTAGTCGACAACACTGTTTACAGGAGGACCATGGATGG	
	TACAGCAAAGTGGAAGACCGTGTGCGCCCCTTGCCCTGACCACTACTACACAGACAG	4980
b	ATGTCGTTTCACCTTCTGGCACACGCGGGAACGGGACTGGTGATGATGTGTCTGTC	
	GCACACCAGTGACGAGTGTCTATACTGCAGCCCCGTGTGCAAGGAGCTGCAGTACGTCAA	5040
b	CGTGTGGTCACTGCTCACAGATATGACGTCGGGGCACACGTTCCTCGACGTCATGCAGTT  H T S D E C L Y C S P V C K E L Q Y V K -	
	RleAI BsmI	
	GCAGGAGTGCAATCGCACCCACAACCGCGTGTGCGAATGCAAGGAAGG	5100
b	CGTCCTCACGTTAGCGTGGGTGTTGGCGCACACGCTTACGTTCCTTCC	
	GATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTGGATTTGGAGTGGTGCAAGCTGG 5101++	5160
b	CTATCTCAAGACGAACTTTGTATCCTCGACGGGAGGACCTAAACCTCACCACGTTCGACC	
	BsmBI	
	AACCCCAGAGCGAAATACAGTTTGCAAAAGATGTCCAGATGGGTTCTTCTCAAATGAGAC  5161+ TTGGGGTCTCGCTTTATGTCAAACGTTTTCTACAGGTCTACCCAAGAAGAGTTTACTCTG T P E R N T V C K R C P D G F F S N E T -	5220
b	GTCATCTAAAGCACCCTGTAGAAAACACACAAATTGCAGTGTCTTTGGTCTCCTGCTAAC	
b	5221+ CAGTAGATTTCGTGGGACATCTTTTGTGTGTTTTAACGTCACAGAAACCAGAGGACGATTG S S K A P C R K H T N C S V F G L L L T -	5280
	BspEI	
	 TCAGAAAGGAAATGCAACACACGACAACATATGTTCCGGAAACAGTGAATCAACTCAAAA	

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

# FIG. 29 I

	SalI BmgI	
	AGTCGACAAAACTCACACATGCCCACCGTGCCCAGCACCTGAACTCCTGGGGGGACCGTC	<b>5</b> 400
b	5341+ TCAGCTGTTTTGAGTGTGTACGGGTGGCACGGGTCGTGGACTTGAGGACCCCCTGGCAG V D K T H T C P P C P A P E L L G G P S -	5400
	AGTCTTCCTCTTCCCCCAAAACCCAAGGACACCCTCATGATCTCCCGGACCCCTGAGGT	
	5401	5460
b	TCAGAAGGAGGGGGTTTTGGGTTCCTGTGGGAGTACTAGAGGGCCTGGGGACTCCA V F L F P P K P K D T L M I S R T P E V -	
	BtrI	
	CACATGCGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGT	5520
b	GTGTACGCACCACCTGCACTCGGTGCTTCTGGGACTCCAGTTCAAGTTGACCATGCA T C V V D V S H E D P E V K F N W Y V -	
	SacII	
	GGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCAC 5521+	5590
b	CCTGCCGCACCTCCACGTATTACGGTTCTGTTTCGGCGCCCCTCCTCGTCATGTTGTCGTG D G V E V H N A K T K P R E E Q Y N S T -	3333
	GTACCGTGTGGTCAGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTA 5581+	5640
b	CATGGCACACCAGTCGCAGGAGTGGCAGGACGTGGTCCTGACCGACTTACCGTTCCTCAT Y R V V S V L T V L H Q D W L N G K E Y -	3040
	CAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAGAAAACCATCTCCAAAGC	<b>5700</b>
b	GTTCACGTTCCAGAGGTTGTTTCGGGAGGGTCGGGGGTAGCTCTTTTGGTAGAGGTTTCG  K C K V S N K A L P A P I E K T I S K A -	3700
	SmaI	
	CAAAGGCCAGCCCCGAGAACCACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGAC	5760
b	GTTTCCCGTCGGGGCTCTTGGTGTCCACATGTGGGACGGGGGTAGGGCCCTACTCGACTG  K G Q P R E P Q V Y T L P P S R D E L T -	
	CAAGAACCAGGTCAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGT 5761+	5820
b	GTTCTTGGTCCAGTCGGACTGGACGGACCAGTTTCCGAAGATAGGGTCGCTGTAGCGGCA KNQVSLTCLVKGFYPSDIAV-	
	GGAGTGGGAGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGA 5821+	5880
	COMO 3. COCIMO MO COCOMO COCOMO COMO COMO COMO	

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

b

SLSLSPGK * *

# FIG. 29J

	Mail	
	CTCCGACGCTCCTTCTTCCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCA	
	5881+	5940
	GAGGCTGCCGAGGAAGAAGGAGATGTCGTTCGAGTGGCACCTGTTCTCGTCCACCGTCGT	
5	SDGSFFLYSKLTVDKSRWQQ-	
	SapI	
	GGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAA	
	5941	6000
	CCCCTTGCAGAAGAGTACGAGGCACTACGTACTCCGAGACGTGTTGGTGATGTGCGTCTT	•
0	GNVFSCSVMHEALHNHYTQK-	
	GAGCCTCTCCCTGTCTCCGGGTAAATGATAACTCGAC	
	6001 6037	
	CTCGGAGAGGGCCCATTTACTATTGAGCTG	

**LEADING TO BONE LOSS** 

FIG. 30A-1

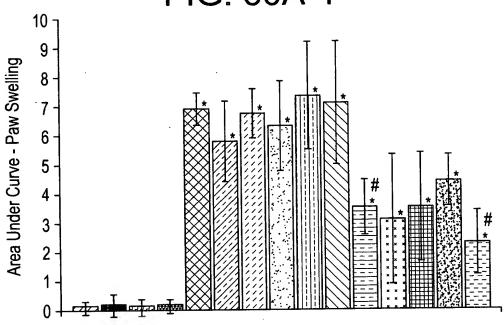
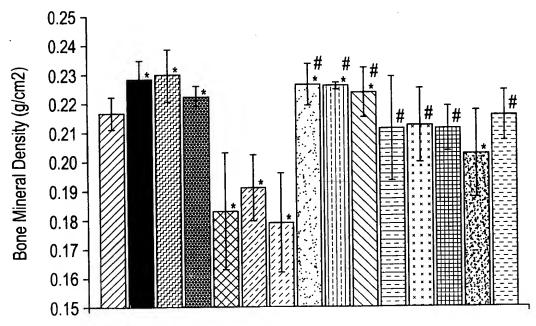


FIG. 30A-2



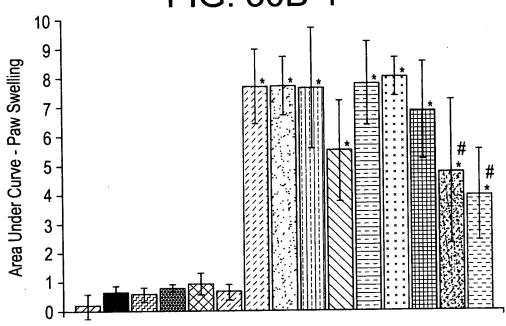
- ZZZ Normal (NT)
- Normal + 4 mg/kg OPG-Fc (s.c.)
- Normal + 1.0 mg/kg OPG-Fc (s.c.)
- Normal + 0.25 mg/kg OPG-Fc (s.c.)
- **⊠** AdA Control
- 222 AdA + CSEP (2ML1)
- EZZI AUA + ODC Dlacaha (e.a.)

- AdA + 1.0 mg/kg OPG-Fc (s.c.)
- AdA + 0.25 mg/kg OPG-Fc (s.c.)
- 15.0 mg/kg/hr IL-1ra (2ML1)
- 5.0 mg/kg/hr IL-1ra (2ML1)
- === 1.0 mg/kg/hr IL-1ra (2ML1)
- ©22 0.2 mg/kg/hr IL-1ra (2ML1)
- FEE AdA + 0.07 malka Devamethasone (s.c.)

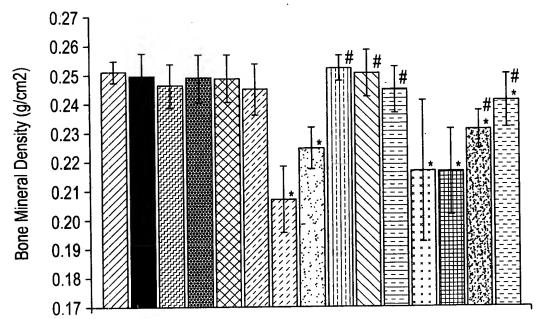
LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5





#### FIG. 30B-2



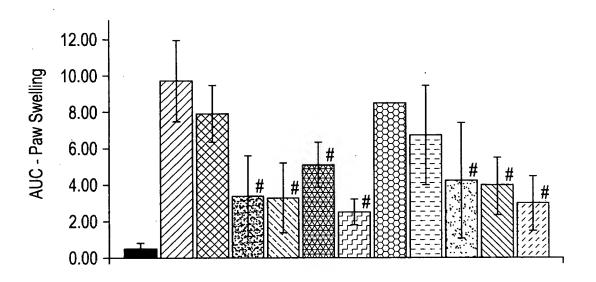
- ZZ Normal
- Normal + 1.0 mg/kg OPG-Fc (s.c.)
- Normal + 0.25 mg/kg OPG-Fc (s.c.)
- Normal + 0.0625 mg/kg OPG-Fc (s.c.)
- Normal + 0.016 mg/kg OPG-Fc (s.c.)
- Normal + 0.004 mg/kg OPG-Fc (s.c.)
- ZZZ AdA control

- AdA + 1.0 mg/kg OPG-Fc (s.c.)
- AdA + 0.25 mg/kg OPG-Fc (s.c.)
- AdA + 0.0625 mg/kg OPG-Fc (s.c.)
- AdA + 0.016 mg/kg OPG-Fc (s.c.)
- AdA + 0.004 mg/kg OPG-Fc (s.c.)
- AdA + 5.0 mg/kg/hr IL-1ra (2ML1)
- AdA + 0.07 mg/kg Dexamethasone (s.c.)

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

**FIG. 31A** 



NT

ZZZ AdA

**⊠** Vehicle

整點 0.2 mg/kg/hr IL-1ra

1.0 mg/kg/hr IL-1ra

0.25 mg/kg s-TNF-R1

단군과 1.0 mg/kg s-TNF-R1

EEEE 0.03 mg/kg OPG-Fc

0.2 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

1.0 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

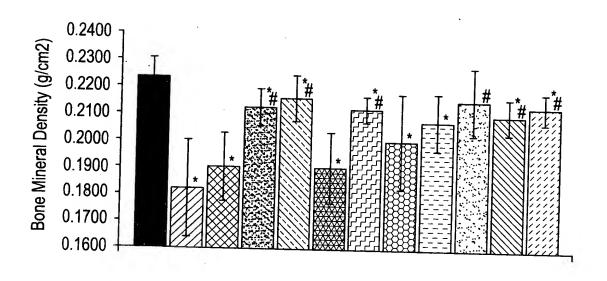
0.25 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc

1.0 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc

LEADING TO BONE LOSS

INVENTORS: Boyle, et al. APPLN. NO: A-378CIP5

FIG. 31B



NT

ZZZ AdA

Vehicle

0.2 mg/kg/hr IL-1ra

1.0 mg/kg/hr IL-1ra

0.25 mg/kg s-TNF-R1

1.0 mg/kg s-TNF-R1

0.03 mg/kg OPG-Fc

0.2 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

1.0 mg/kg/hr IL-1ra + 0.03 mg/kg OPG-Fc

0.25 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc

1.0 mg/kg s-TNF-R1 + 0.03 mg/kg OPG-Fc